

OCXO2527L

Ultra-Low Phase Noise OCXO with Sine wave Output

Features and Benefits

Ultra-Low Phase noise OCXO
Sine wave output
12V Power supply
5 minutes max warm-up
25.8x25.8x12.7mm max

Description

OCXO2527L is Ultra-Low phase noise with Sine wave output OCXO

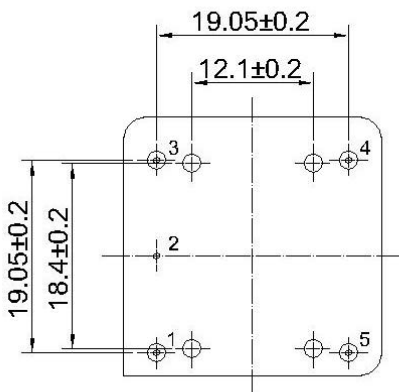
Typical Applications

Ref. for Microwave comm. System
signal analyzer Reference for internal synthesizers
SATCOM systems

Mechanical Drawing & Pin Connections

Drawing No: MD13022-2

Bottom View

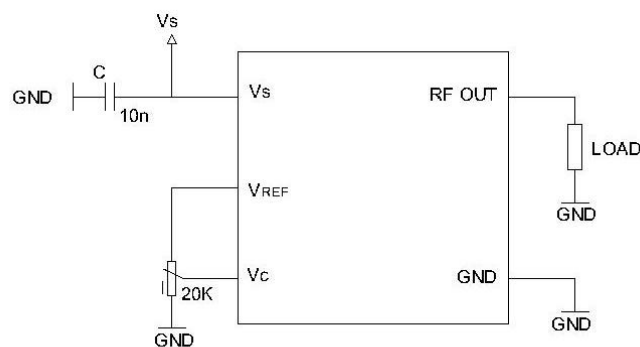
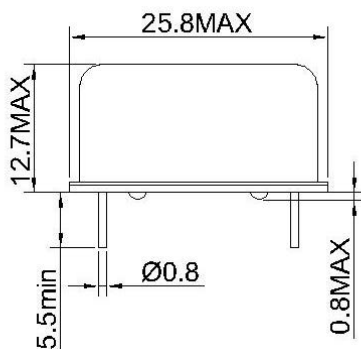


Pin Connections:

PIN #	Symbol	CONNECTION
1	RF OUT	RF Output
2	GND	Ground, case
3	Vc	Control Voltage(EFC)
4	VREF	Reference Voltage
5	Vs	Supply Voltage

Unit : mm

Side View



OEXO2527L

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Specifications

OCXO Specification	Sym	Condition	Value			Unit	Note				
			Min.	Typ.	Max.						
Frequency Range	F ₀		80		125	MHz					
Standard Frequencies			10.000/120.000			MHz					
RF Output											
Output Waveform			Sine wave								
Load	R _L	+/-5%		50		Ohm					
Output Level			+7			dBm					
Harmonics					-30	dBc					
Spurious					-90	dBc					
G-Sensitivity		Per Axis			1.0	ppb/g					
Power Supply											
Supply Voltage	V _{cc}		11.4	12.0	12.6	V					
Current Consumption(Steady State)	I _{steady}	@ +25°C			150	mA					
Current Consumption(Warm-up)	I _{warm-up}				350	mA					
Warm-up Time@+25°C		$\Delta f_{final}/f_0 < +/- 0.1 \text{ ppm}$		3	5	min					
Frequency Control*											
Electronic Frequency Control(EFC)			+/-1	+/-2		ppm					
Reference Output	V _{REF}			10.0		V					
EFC Voltage	V _c		0	V _{REF} /2	V _{REF}	V					
EFC Input Impedance			100			Kohm					
EFC Slope	$\Delta f/V_c$		Positive								
Frequency Stability											
Initial Tolerance @+25°C		V _c @ V _{REF} /2			+/-300	ppb					
Vs. Operating Temperature Range		Steady state			+/-25	ppb	For more information, Please consult sale				
Vs. Supply Voltage Variation(Pushing)		V _s +/-5%			+/-10	ppb					
Vs. Load Change(Pulling)		Load+/-5%			+/-5	ppb					
Aging	Long Term Per Day	After 30days operation		+/-1	+/-2	ppb					
	Long Term 1 st Year	After 30days operation		+/-100	+/-200	ppb					
Phase Noise											
Offset	100MHz					120MHz					Unit
	A	B	C	D	E	A	B	C	D	E	
10Hz	-90	-95	-97	-100	-105	-85	-90	-95	-97	-100	dBc/Hz
100Hz	-125	130	-132	-135	-137	-118	-122	-125	-127	-130	dBc/Hz
1000Hz	-155	-158	-160	-162	-164	-148	-150	-153	-155	-157	dBc/Hz
10kHz	-165	-168	-170	-172	-174	-160	-165	-168	-170	-172	dBc/Hz
>=100kHz	-175	-175	-175	-175	-175	-175	-175	-175	-175	-175	dBc/Hz
Environmental											
Packing	Palette										
Size	25.8x25.8x12.7mm max										
Weight	20g max										